QC-ABSTRACT

Name of Work:- Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	PCC 1:4:8	47.87 Cum	1	1	Cement Sand, Aggregates
2	Steel	32.54 Tonne	1	1	-
3	M30	260.14 Cum	9	9	Concrete Cube Compressive strength
4	M25	55.78 Cum	5	5	Concrete Cube Compressive strength
5	CC Block 8"	116.06 Sqm	1	1	Compressive strength
6	PVC Pipe 25mm	300M	1	1	-
7	PVC Pipe 32mm	20M	1	1	-
8	Bricks	-	1	1	-

Cubes

0-5 m^3	1set
6-15 m^3	2set
16-30 m^3	3set
31-50 m^3	4 set

Add 1set for extra 50Cum

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KRG/17/2020-2021 Date:27.05.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer, Project** Division,RR Nagara Zone,BBMP, Bangalore.

Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.

Name of Work Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Sample : :Cement (Birla Super 53 grade OPC)

Sample Supplied by: :AGENCY

Date of Manufacture: : April - 2021

Date of Testing : 25.05.2021 to 27.05.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	120 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

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Rajarajeshwari Nagar Zone

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Authorised Signatory

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date : 27.05.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer, Project** Division,RR Nagara Zone,BBMP, Bangalore.

Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.

Name of Work Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Date of Testing : 27.05.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	8.50	8.50	91.5	90-100
2.36	141	14.10	22.60	77.4	75-100
1.18	221	22.10	44.70	55.3	55-90
600 Micron	189	18.90	63.60	36.4	35-59
300 Micron	201	20.10	83.70	16.3	8-30
150 Micron	89	8.90	92.60	7.4	0-10

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Testing of Construction Material : Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No: CQCE/BBMP/KRG/17/2020-2021 Date : 27.05.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer, Project** Division,RR Nagara Zone,BBMP, Bangalore.

Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.

Name of Work : Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Date of Testing : 27.05.2021

IS Code : IS 383:2016

: IS 2386 (Part I):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	198	1.32	1.32	98.68	95-100
20	8452	56.35	57.67	42.33	30-70
10	3156	21.04	78.71	21.29	10-35
4.75	2545	16.97	95.67	4.33	0-5

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TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer, Project** Division,RR Nagara Zone,BBMP, Bangalore.

Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.

Name of Work Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Date of Testing : 27.05.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	201	4.0	4.0	96.0	95-100
10	2895	57.9	61.9	38.1	25-55
4.75	1589	31.8	93.7	6.3	0-10

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date :09.06.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer, Project** Division,RR Nagara Zone,BBMP, Bangalore.

Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.

Name of Work Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Steel Dia/Length: 8mm,10mm,12mm,16mm,20mm,25mm" TMT"

Reference to BIS codes: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test: :09.06.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.397	523	610	1.17	13.5
2	TMT	10	0.619	548	615	1.12	17
3	TMT	12	0.888	556	628	1.13	18.5
4	TMT	16	1.582	567	634	1.12	20
5	TMT	20	2.471	582	645	1.11	22
6	TMT	25	3.853	590	658	1.12	24

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.:CQCE/BBMP/KRG/17/2020-2021

22.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division,RR Nagara Zone,BBMP, Bangalore.

Agency : **Sri. K R Govindaraju**, Contractor, Bangalore.

Name of the work : Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2021	22.06.2021	8.136	402.6	17.89
2	15.06.2021	22.06.2021	8.128	417.2	18.54
3	15.06.2021	22.06.2021	8.176	428.3	19.04

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.:CQCE/BBMP/KRG/17/2020-2021

13.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division,RR Nagara Zone,BBMP, Bangalore.

Agency : **Sri. K R Govindaraju**, Contractor, Bangalore.

Name of the work : Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2021	13.07.2021	8.169	603.8	26.84
2	15.06.2021	13.07.2021	8.184	584.2	25.96
3	15.06.2021	13.07.2021	8.156	597.2	26.54

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Name of the work : Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2021	22.06.2021	8.169	416.3	18.50
2	15.06.2021	22.06.2021	8.175	400.7	17.81
3	15.06.2021	22.06.2021	8.182	424.9	18.88

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Agency : **Sri. K R Govindaraju**, Contractor, Bangalore.

Name of the work : Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2021	13.07.2021	8.199	621.3	27.61
2	15.06.2021	13.07.2021	8.215	605.2	26.90
3	15.06.2021	13.07.2021	8.184	611.3	27.17

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2021	22.06.2021	8.169	398.2	17.70
2	15.06.2021	22.06.2021	8.184	410.6	18.25
3	15.06.2021	22.06.2021	8.194	425.8	18.92

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Agency : **Sri. K R Govindaraju**, Contractor, Bangalore.

Name of the work : Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2021	13.07.2021	8.211	585.2	26.01
2	15.06.2021	13.07.2021	8.189	597.3	26.55
3	15.06.2021	13.07.2021	8.192	611.2	27.16

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29.06.2021

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Agency : **Sri. K R Govindaraju**, Contractor, Bangalore.

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.06.2021	29.06.2021	8.178	411.8	18.30
2	22.06.2021	29.06.2021	8.199	403.9	17.95
3	22.06.2021	29.06.2021	8.168	396.6	17.63

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Client : **Executive Engineer,** Project Division,RR Nagara Zone,BBMP, Bangalore.

Agency : **Sri. K R Govindaraju**, Contractor, Bangalore.

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.06.2021	20.07.2021	8.189	600.7	26.70
2	22.06.2021	20.07.2021	8.211	598.9	26.62
3	22.06.2021	20.07.2021	8.163	614.5	27.31

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Rajarajeshwari Nagar Zone

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.:CQCE/BBMP/KRG/17/2020-2021

29.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division,RR Nagara Zone,BBMP, Bangalore.

Agency : **Sri. K R Govindaraju**, Contractor, Bangalore.

Name of the work : Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.06.2021	29.06.2021	8.166	401.8	17.86
2	22.06.2021	29.06.2021	8.159	419.3	18.64
3	22.06.2021	29.06.2021	8.173	427.2	18.99

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

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